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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

12/15/2008

SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVENUE, SUITE 5400 SEATTLE, WA 98104-7092 EXAMINER

HAN, YOUNGHUIE JESSICA

ART UNIT PAPER NUMBER

2838

DATE MAILED: 12/15/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,059	04/24/2007	Tobias Georg Tolle	853563.444USPC	6203

TITLE OF INVENTION: METHOD OF OPERATING A DC/DC UP/DOWN CONVERTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/16/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth tions.	ng the Patent, advance of herwise in Block 1, by (correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of add				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, much ave its own certificate of mailing or transmission.				or any other accompanying
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								(Signature)
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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVEN	ST NAMED INVENTOR ATTORNEY DOCKET NO		RNEY DOCKET NO.	CONFIRMATION NO.	
10/585,059	04/24/2007	•	Tobias Georg Toll	e	•	85	3563.444USPC	6203
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	03/16/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
HAN, YOUNG	HUIE JESSICA	2838	323-267000		•			
1. Change of correspond CFR 1.363).	ence address or indication	n of "Fee Address" (37		on the patent front page, list				
_	ondence address (or Cha	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,					
 ☐ Change of correspondence address (or Change of Correspondenc Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form 			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
PTO/SB/47; Rev 03-0 Number is required.	02 or more recent) attach	ded. Use of a Customer	2 registered patent listed, no name wil	attor	rneys or agents. If no	o nam	ie is 3	
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print o	r typ	pe)			
PLEASE NOTE: Uni	less an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assignee	e data will appear on th	ne pa	ntent. If an assignee	e is id	lentified below, the de	ocument has been filed for
(A) NAME OF ASSI	•	nedon of this form is two	(B) RESIDENCE: (C		· ·	DUNT	RY)	
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Please check the appropr	iate assignee category or	categories (will not be p	orinted on the patent):		Individual	porati	on or other private gro	up entity 🔲 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (se first reapply any	prev	iously paid issue fee s	shown above)
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Publication Fee (No small entity discount permitted) Advance Order - # of Copies			☐ The Director is he	Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
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5. Change in Entity Sta a. Applicant claim	tus (from status indicated is SMALL ENTITY stati		b. Applicant is no	long	ger claiming SMALI	L ENT	ΓΙΤΥ status. See 37 CF	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademan	ed from anyone other th					e assignee or other party in
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Typed or printed name This collection of information is required by 37 CFR 1.311. The inform					-			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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SEED INTELLE	CTUAL PROPERTY	Y LAW GROUP PLLC	HAN, YOUNGHUIE JESSICA			
	ENUE, SUITE 5400 ART UNIT PAPER N					
SEATTLE, WA 98	3104-7092		2838			
			DATE MAILED: 12/15/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 174 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 174 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/585,059	TOLLE ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Jessica Han	2838			
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to and MPEP 1308.	olication. If not included will be mailed in due course. THIS			
1. This communication is responsive to <u>a case filed on 06/29/</u>	<u>/2006</u> .				
2. The allowed claim(s) is/are <u>1-8</u> .					
 Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Tertified copies of the priority documents have Copies of the certified copies of the priority documents have Tertified copies not received:	be been received. been received in Application No cuments have been received in this communication to file a reply received in this communication to file a reply received in the received in this communication to file a reply received in this communication to file a reply received in this r	national stage application from the			
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 					
5. CORRECTED DRAWINGS (as "replacement sheets") mus					
(a) ☐ including changes required by the Notice of Draftspers	•	948) attached			
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of 					
Paper No./Mail Date	s Amendment / Comment or in the C	ince action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the					
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(a)					
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal Pa	atent Application			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat				
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/29/06	7. ⊠ Examiner's Amendment/Comment				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	8. Examiner's Statement of Reasons for Allowance			
	9.				

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

IN THE CLAIMS:

In claim 1, line 11, --connected-- has been added before "between"; and at line 28, "(controller)" has been deleted.

In claim 4, line 11, --connected-- has been added before "between"; at line 27, "and and" has been changed to --and--; and at line 29, "cloil" has been changed to --coil--.

Allowable Subject Matter

- 2. Claims 1-8 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Claim 1 recites, inter alia, the control means controls the output switching means, so that in the course of one switching cycle the coil current flows from the second terminal into both output branches and controls the main switch in the transient state of the up-down converter, so that the average voltage on the first terminal is equal to the voltage on the second terminal.

Claim 4 recites, inter alia, the control means controls the output switching means, so that in the course of one switching cycle the coil current flows from the second terminal into both

Art Unit: 2838

output branches at least once; and controls the main switch in the transient state of the up-down converter so that the average voltage on the second terminal, thus equal to the input voltage.

The art of record does not disclose the above limitations, nor would it be obvious to modify the art of record so as to include either of the above limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y. J. Han whose telephone number is 571-272-2078. The examiner can normally be reached on Mon-Fri 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm Ullah can be reached on 571-272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/585,059 Page 4

Art Unit: 2838

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jessica Han/ Primary Examiner, Art Unit 2838